

CEREAL CHEMISTRY®

Author Index to Volume 83

Page numbers of errata are in italic.

- Abecassis, J. *See* V. Greffeuil, 641
—. *See* G. Ounane, 377
- Aboubacar, A., K. A. K. Moldenhauer, A. M. McClung, D. H. Beighley, and B. R. Hamaker. Effect of growth location in the United States on amylose content, amylopectin fine structure, and thermal properties of starches of long grain rice cultivars, 93
- Agama-Acevedo, E. *See* L. A. Bello-Pérez, 188
- Aguilar-Palazuelos, E., J. de J. Zazueta-Morales, and F. Martínez-Bustos. Preparation of high-quality protein-based extruded pellets expanded by microwave oven, 363
- Akdogan, H., M. Tilley, and O. K. Chung. Note: Effect of emulsifiers on textural properties of whole wheat tortillas during storage, 632
- Alavi, S. *See* N. Yao, 692
- Álvar-Martínez-Peniche, R. *See* E. D. Narváez-González, 595
- Aman, P. *See* M. Fink, 218
- Ames, N. *See* C. Rampitsch, 510
- Anderson, J. V. *See* E. P. Fuerst, 10
- Andersson, R. *See* M. Fink, 218
- Aramaki, I. *See* M. Okuda, 143
- Arendt, E. K. *See* M. M. Moore, 28
—. *See* H. H. Wijngaard, 391
- Arntfield, S. D. *See* S. Sun, 340
- Aux, G. W. *See* V. Singh, 317
- Axtell, J. D. *See* T. Tesso, 194
- Baenziger, P. S. *See* F. E. Dowell, 537
- Bævre, A. B. *See* S. Sahlstrom, 647
- Baik, B.-K. *See* D. D. Dalgetty, 269
—. *See* I. H. Han, 428
—. *See* Z. Quinde-Axtell, 385
- Baltsperger, D. D. *See* F. E. Dowell, 537
- Barbeau, W. E., C. A. Griffey, and Z. Yan. Evidence that minor sprout damage can lead to significant reductions in gluten strength of winter wheats, 306
- Barron-Hoyos, J. M. *See* A. L. Romero-Baranzini, 358
- Batie, C. J. *See* V. Singh, 317, 321
- Bautista, R. C. *See* T. Siebenmorgen, 275
- Bean, S. R., O. K. Chung, M. R. Tuinstra, J. F. Pedersen, and J. Erpelding. Evaluation of the single kernel characterization system (SKCS) for measurement of sorghum grain attributes, 108
—. B. P. Ioerger, S. H. Park, and H. Singh. Interaction between sorghum protein extraction and precipitation conditions on yield, purity, and composition of purified protein fractions, 99
—. *See* D. Y. Corredor, 17
—. *See* E. B. Maghirang, 520
—. *See* F. E. Dowell, 529
—. *See* S. H. Park, 418, 611
—. *See* X. Wu, 127, 316, 569
- Bechtel, D. B. *See* J. D. Wilson, 259
- Beck, M. I. *See* I. Paraman, 633
- Beighley, D. H. *See* A. Aboubacar, 93
- Bello-Pérez, L. A., J. R. Rendón-Villalobos, E. Agama-Acevedo, and J. J. Islas-Hernández. In vitro starch digestibility of tortillas elaborated by different masa preparation procedures, 188
- Belyea, R. L. *See* R. Srinivasan, 324
—. *See* M. R. Wilkins, 121, 311
- Berglund, P. T. *See* C. E. Fastnacht, 424
- Berrios, J. de J. *See* T. S. Kahlon, 434
- Beta, T. *See* J. Wu, 211
- Bette, A. D. *See* S. M. Finnie, 629, 684
- Bi, J. C. *See* H. L. Wang, 402
- Bizimungu, B. *See* C. Rampitsch, 510
- Blake, N. K. *See* D. Nash, 255
- Blaszcak, W. *See* A. Bonet, 655
- Bonet, A., W. Blaszcak, and C. M. Rosell. Formation of homopolymers and heteropolymers between wheat flour and several protein sources by trans-glutaminase-catalyzed cross-linking, 655
- Borrás, F. S. *See* W. J. Rogers, 677
- Borrás, F. K. Seetharaman, N. Yao, J. L. Robutti, N. M. Percibaldi, and G. H. Eyherabide. Relationship between popcorn composition and expansion volume and discrimination of corn types by using zein properties, 86
—. *See* W. J. Rogers, 677
- Bregitzer, P., and V. Raboy. Effects of four independent low-phytate mutations in barley (*Hordeum vulgare* L.) on seed phosphorus characteristics and malting quality, 460
- Bueso, F. J., R. D. Waniska, R. Moreira, K. Seetharaman, and L. W. Rooney. Effect of temperature on texture of corn tortilla with and without antistaling agents, 348
- Buriak, P. *See* L. Cabrales, 22
- Buriak, P. *See* M. R. Wilkins, 121, 311
- Burkus, Z., and F. Temelli. Network formation by pilot plant and laboratory-extracted β-glucan and its rheological properties in aqueous solutions, 584
- Cabrales, L., Y. X. Niu, P. Buriak, P., and S. R. Eckhoff. Effect of laboratory batch steeping pH on starch yield and pasting properties of selected corn hybrids, 22
- Caley, M. S. *See* E. B. Maghirang, 520
—. *See* Z. S. Xiao, 465
- Cameron, D. K., and Y.-J. Wang. Application of protease and high-intensity ultrasound in corn starch isolation from degemmed corn flour, 505
- Campbell, M. *See* X. Wu, 569
- Cao, T. K. *See* G. H. Robertson, 136
- Carriere, C. J. *See* J. Xu, 37
- Castaño Tostado, E. *See* E. D. Narváez-González, 595
- Cato, L., A. L. Halmos, and D. M. Small. Impact of α-amylases on quality characteristics of Asian white salted noodles made from Australian white wheat flour, 491
- Chandrashekhar, A. *See* T. Tesso, 194
- Chang, T. *See* J. Xu, 37
- Chang, Y.-C. *See* L.-H. Lin, 498
- Chen, L. M. *See* H. L. Wang, 402
- Chiou, B.-S., E. Yee, D. Wood, J. Shey, G. Glenn, and W. Orts. Effects of processing conditions on nanoclay dispersion in starch-clay nanocomposites, 300
- Chong, S. W. *See* Y.-J. Wang, 25
- Chuang, G. C.-C., and A.-I. Yeh. Creep deformation modeling of glutinous rice cakes (Mochi), 179
- Chung, O. K. *See* H. Akdogan, 632
—. *See* S. R. Bean, 108
—. *See* F. E. Dowell, 529
—. *See* E. B. Maghirang, 520
—. *See* S. H. Park, 418
—. *See* Z. S. Xiao, 465
- Cogliatti, M. *See* W. J. Rogers, 677
- Collar, C., E. Santos, and C. M. Rosell. Significance of dietary fiber on the viscometric pattern of pasted and gelled flour-fiber blends, 370
- Cooper, N. T. W., P. A. Counce, and J.-F. Meullenet. Explaining rice milling quality variation using historical weather data analysis, 447
- Corke, H. *See* J. Wu, 211
- Corredor, D. Y., S. R. Bean, T. Schober, and D. Wang. Effect of decorticating sorghum on ethanol production and composition of DDGS, 17
- Counce, P. A. *See* N. T. W. Cooper, 447
- Cuq, B. *See* G. Ounane, 377
- Dalgetty, D. D., and B.-K. Baik. Fortification of bread with hulls and cotyledon fibers isolated from peas, lentils, and chickpeas, 269
- De Bie, E. *See* L. Lamberts, 80
- de Dios Figueroa-Cárdenas, J. *See* E. D. Narváez-González, 595, 605
- de Francisco, A. *See* A. Zuleta, 76
- de J. Berrios, J. *See* T. S. Kahlon, 152, 157
- de J. Zazueta-Morales, J. *See* E. Aguilar-Palazuelos, 363
- Delcour, J. A. *See* L. Lamberts, 80
- Delwiche, S. R., R. A. Graybosch, L. E. Hansen, E. Souza, and F. E. Dowell. Single kernel near-infrared analysis of tetraploid (durum) wheat for classification of the waxy condition, 287
- De Man, W. *See* L. Lamberts, 80
- Derycke, V. *See* L. Lamberts, 80
- Dexter, J. E. *See* S. L. Lagassé, 202
—. *See* M. Wang, 161
- Dias, A. *See* W. Li, 407

CEREAL CHEMISTRY®

Author Index to Volume 83

Page numbers of errata are in italic.

- Abecassis, J. *See* V. Greffeuil, 641
—. *See* G. Ounane, 377
- Aboubacar, A., K. A. K. Moldenhauer, A. M. McClung, D. H. Beighley, and B. R. Hamaker. Effect of growth location in the United States on amylose content, amylopectin fine structure, and thermal properties of starches of long grain rice cultivars, 93
- Agama-Acevedo, E. *See* L. A. Bello-Pérez, 188
- Aguilar-Palazuelos, E., J. de J. Zazueta-Morales, and F. Martínez-Bustos. Preparation of high-quality protein-based extruded pellets expanded by microwave oven, 363
- Akdogan, H., M. Tilley, and O. K. Chung. Note: Effect of emulsifiers on textural properties of whole wheat tortillas during storage, 632
- Alavi, S. *See* N. Yao, 692
- Álvar-Martínez-Peniche, R. *See* E. D. Narváez-González, 595
- Aman, P. *See* M. Fink, 218
- Ames, N. *See* C. Rampitsch, 510
- Anderson, J. V. *See* E. P. Fuerst, 10
- Andersson, R. *See* M. Fink, 218
- Aramaki, I. *See* M. Okuda, 143
- Arendt, E. K. *See* M. M. Moore, 28
—. *See* H. H. Wijngaard, 391
- Arntfield, S. D. *See* S. Sun, 340
- Aux, G. W. *See* V. Singh, 317
- Axtell, J. D. *See* T. Tesso, 194
- Baenziger, P. S. *See* F. E. Dowell, 537
- Bævre, A. B. *See* S. Sahlstrom, 647
- Baik, B.-K. *See* D. D. Dalgetty, 269
—. *See* I. H. Han, 428
—. *See* Z. Quinde-Axtell, 385
- Baltsperger, D. D. *See* F. E. Dowell, 537
- Barbeau, W. E., C. A. Griffey, and Z. Yan. Evidence that minor sprout damage can lead to significant reductions in gluten strength of winter wheats, 306
- Barron-Hoyos, J. M. *See* A. L. Romero-Baranzini, 358
- Batie, C. J. *See* V. Singh, 317, 321
- Bautista, R. C. *See* T. Siebenmorgen, 275
- Bean, S. R., O. K. Chung, M. R. Tuinstra, J. F. Pedersen, and J. Erpelding. Evaluation of the single kernel characterization system (SKCS) for measurement of sorghum grain attributes, 108
—. B. P. Ioerger, S. H. Park, and H. Singh. Interaction between sorghum protein extraction and precipitation conditions on yield, purity, and composition of purified protein fractions, 99
—. *See* D. Y. Corredor, 17
—. *See* E. B. Maghirang, 520
—. *See* F. E. Dowell, 529
—. *See* S. H. Park, 418, 611
—. *See* X. Wu, 127, 316, 569
- Bechtel, D. B. *See* J. D. Wilson, 259
- Beck, M. I. *See* I. Paraman, 633
- Beighley, D. H. *See* A. Aboubacar, 93
- Bello-Pérez, L. A., J. R. Rendón-Villalobos, E. Agama-Acevedo, and J. J. Islas-Hernández. In vitro starch digestibility of tortillas elaborated by different masa preparation procedures, 188
- Belyea, R. L. *See* R. Srinivasan, 324
—. *See* M. R. Wilkins, 121, 311
- Berglund, P. T. *See* C. E. Fastnacht, 424
- Berrios, J. de J. *See* T. S. Kahlon, 434
- Beta, T. *See* J. Wu, 211
- Bette, A. D. *See* S. M. Finnie, 629, 684
- Bi, J. C. *See* H. L. Wang, 402
- Bizimungu, B. *See* C. Rampitsch, 510
- Blake, N. K. *See* D. Nash, 255
- Blaszcak, W. *See* A. Bonet, 655
- Bonet, A., W. Blaszcak, and C. M. Rosell. Formation of homopolymers and heteropolymers between wheat flour and several protein sources by trans-glutaminase-catalyzed cross-linking, 655
- Borrás, F. S. *See* W. J. Rogers, 677
- Borrás, F. K. Seetharaman, N. Yao, J. L. Robutti, N. M. Percibaldi, and G. H. Eyherabide. Relationship between popcorn composition and expansion volume and discrimination of corn types by using zein properties, 86
—. *See* W. J. Rogers, 677
- Bregitzer, P., and V. Raboy. Effects of four independent low-phytate mutations in barley (*Hordeum vulgare* L.) on seed phosphorus characteristics and malting quality, 460
- Bueso, F. J., R. D. Waniska, R. Moreira, K. Seetharaman, and L. W. Rooney. Effect of temperature on texture of corn tortilla with and without antistaling agents, 348
- Buriak, P. *See* L. Cabrales, 22
- Buriak, P. *See* M. R. Wilkins, 121, 311
- Burkus, Z., and F. Temelli. Network formation by pilot plant and laboratory-extracted β-glucan and its rheological properties in aqueous solutions, 584
- Cabrales, L., Y. X. Niu, P. Buriak, P., and S. R. Eckhoff. Effect of laboratory batch steeping pH on starch yield and pasting properties of selected corn hybrids, 22
- Caley, M. S. *See* E. B. Maghirang, 520
—. *See* Z. S. Xiao, 465
- Cameron, D. K., and Y.-J. Wang. Application of protease and high-intensity ultrasound in corn starch isolation from degemered corn flour, 505
- Campbell, M. *See* X. Wu, 569
- Cao, T. K. *See* G. H. Robertson, 136
- Carriere, C. J. *See* J. Xu, 37
- Castaño Tostado, E. *See* E. D. Narváez-González, 595
- Cato, L., A. L. Halmos, and D. M. Small. Impact of α-amylases on quality characteristics of Asian white salted noodles made from Australian white wheat flour, 491
- Chandrashekhar, A. *See* T. Tesso, 194
- Chang, T. *See* J. Xu, 37
- Chang, Y.-C. *See* L.-H. Lin, 498
- Chen, L. M. *See* H. L. Wang, 402
- Chiou, B.-S., E. Yee, D. Wood, J. Shey, G. Glenn, and W. Orts. Effects of processing conditions on nanoclay dispersion in starch-clay nanocomposites, 300
- Chong, S. W. *See* Y.-J. Wang, 25
- Chuang, G. C.-C., and A.-I. Yeh. Creep deformation modeling of glutinous rice cakes (Mochi), 179
- Chung, O. K. *See* H. Akdogan, 632
—. *See* S. R. Bean, 108
—. *See* F. E. Dowell, 529
—. *See* E. B. Maghirang, 520
—. *See* S. H. Park, 418
—. *See* Z. S. Xiao, 465
- Cogliatti, M. *See* W. J. Rogers, 677
- Collar, C., E. Santos, and C. M. Rosell. Significance of dietary fiber on the viscometric pattern of pasted and gelled flour-fiber blends, 370
- Cooper, N. T. W., P. A. Counce, and J.-F. Meullenet. Explaining rice milling quality variation using historical weather data analysis, 447
- Corke, H. *See* J. Wu, 211
- Corredor, D. Y., S. R. Bean, T. Schober, and D. Wang. Effect of decorticating sorghum on ethanol production and composition of DDGS, 17
- Counce, P. A. *See* N. T. W. Cooper, 447
- Cuq, B. *See* G. Ounane, 377
- Dalgetty, D. D., and B.-K. Baik. Fortification of bread with hulls and cotyledon fibers isolated from peas, lentils, and chickpeas, 269
- De Bie, E. *See* L. Lamberts, 80
- de Dios Figueroa-Cárdenas, J. *See* E. D. Narváez-González, 595, 605
- de Francisco, A. *See* A. Zuleta, 76
- de J. Berrios, J. *See* T. S. Kahlon, 152, 157
- de J. Zazueta-Morales, J. *See* E. Aguilar-Palazuelos, 363
- Delcour, J. A. *See* L. Lamberts, 80
- Delwiche, S. R., R. A. Graybosch, L. E. Hansen, E. Souza, and F. E. Dowell. Single kernel near-infrared analysis of tetraploid (durum) wheat for classification of the waxy condition, 287
- De Man, W. *See* L. Lamberts, 80
- Derycke, V. *See* L. Lamberts, 80
- Dexter, J. E. *See* S. L. Lagassé, 202
—. *See* M. Wang, 161
- Dias, A. *See* W. Li, 407

- Di Martino, A. M. *See* W. J. Rogers, 677
 Dobraszczyk, B. J. *See* W. Li, 407
 Dockery, P. *See* M. M. Moore, 28
 Doeblert, D. C., M. S. McMullen, and J.-L. Jannink. Oat grain/groat size ratios: A physical basis for test weight, 114
 Domon, E. *See* T. Yanagisawa, 354
 Dowell, F. E., E. B. Maghirang, R. A. Graybosch, P. S. Baenziger, D. D. Baltensperger, and L. E. Hansen. An automated near-infrared system for selecting individual kernels based on specific quality characteristics, 537
 —, —, F. Xie, G. L. Lookhart, R. O. Pierce, B. W. Seabourn, S. R. Bean, J. D. Wilson, and O. K. Chung. Predicting wheat quality characteristics and functionality using near-infrared spectroscopy, 529
 —, —, *See* S. R. Delwiche, 287
 —, —, *See* E. B. Maghirang, 520
 Dudgeon, A. L. *See* C. E. Fastnau, 424
 Dyner, L. *See* A. Zuleta, 76
 Earp, C. F. *See* T. J. Siebenmorgen, 169
 Eckhoff, S. R. *See* L. Cabrales, 22
 Ejeta, G. *See* T. Tesso, 194
 Erpelding, J. *See* S. R. Bean, 108
 Every, D., S. C. Morrison, L. D. Simmons, and M. P. Ross. Distribution of glutathione in millstreams and relationships to chemical and baking properties of flour, 57
 —, —, L. D. Simmons, and M. P. Ross. Distribution of redox enzymes in millstreams and relationships to chemical and baking properties of flour, 62, 315
 Eyherabide, G. H. *See* F. Borras, 86
 Fastnau, C. E., P. T. Berglund, A. L. Dudgeon, and M. Hadley. Note: Lipid changes during storage of milled hullless barley products, 424
 Fink, M., R. Andersson, J. Rosén, and P. Åman. Effect of added asparagine and glycine on acrylamide content in yeast-leavened bread, 218
 Finnie, S. M., A. D. Bettge, and C. F. Morris. Influence of cultivar and environment on water-soluble and water-insoluble arabinoxylans in soft wheat, 629
 —, —, and —. Influence of flour chlorination and ingredient formulation on the quality attributes of pancakes, 684
 Fox, P. *See* D. Nash, 255
 Fox, S. R. *See* N. Vignaux, 482
 Frégeau Reid, J. *See* C. S. Gaines, 284
 Fuerst, E. P., J. V. Anderson, and C. F. Morris. Polyphenol oxidase in wheat grain: Whole kernel and bran assays for total and soluble activity, 10
 Fujita, M. *See* C. Kiribuchi-Otobe, 590
 —, —, *See* T. Yanagisawa, 354
 Furukawa, S., K. Tanaka, T. Masumura, Y. Ogihara, Y. Kiyokawa, and Y. Wakai. Influence of rice proteins on eating quality of cooked rice and on aroma and flavor of sake, 439
 Gaines, C. S., J. Frégeau Reid, C. Vander Kant, and C. F. Morris. Note: Comparison of methods for gluten strength assessment, 284
 Ganjyal, G. M., and M. A. Hanna. Role of blowing agents in expansion of high-amyllose starch acetate during extrusion, 577
 —, —, P. Supprung, A. Noomhorn, and D. Jones. Modeling selected properties of extruded rice flour and rice starch by neural networks and statistics, 223
 Geera, B. P., J. E. Nelson, E. Souza, and K. C. Huber. Composition and properties of A- and B-type starch granules of wild-type, partial waxy, and waxy soft wheat, 551
 —, —, —, and —. Flour pasting properties of wild-type and partial waxy soft wheats in relation to growing environment-induced fluctuations in starch characteristics, 558
 —, —, —, and —. Granule bound starch synthase I (GBSSI) gene effects related to soft wheat flour/starch characteristics and properties, 544
 Gil, A. M. *See* W. Li, 407
 Giroux, M. J. *See* D. Nash, 255
 Glenn, G. M. *See* B.-S. Chiou, 300
 —, —, *See* Y. Ogawa, 636
 Godber, J. S. *See* T. Sun, 451
 Graybosch, R. A. *See* S. R. Delwiche, 287
 —, —, *See* F. E. Dowell, 537
 —, —, *See* D. Nash, 255
 —, —, *See* S. Sahlstrom, 647
 Greffeuil, V., J. Abecassis, C. Lapierre, and V. Lullien-Pellerin. Bran size distribution at milling and mechanical and biochemical characterization of common wheat grain outer layers: A relationship assessment, 641
 Gregorski, K. S. *See* G. H. Robertson, 136
 Griffey, C. A. *See* W. E. Barbeau, 306
 Hadley, M. *See* C. E. Fastnau, 424
 Halmos, A. L. *See* L. Cato, 491
 Hamaker, B. R. *See* A. Aboubacar, 93
 —, —, *See* T. Tesso, 194
 Han, I. H., and B.-K. Baik. Oligosaccharide content and composition of legumes and their reduction by soaking, cooking, ultrasound, and high hydrostatic pressure, 428
 Hanna, M. A. *See* G. M. Ganjyal, 223, 577
 Hansen, L. E. *See* F. E. Dowell, 537
 Hansen, L. E. *See* S. R. Delwiche, 287
 Harelund, G. *See* Y. G. Wang, 293
 Hashizume, K. *See* M. Okuda, 143
 Hatcher, D. W. *See* S. L. Lagassé, 202
 Heinboekel, M. *See* M. M. Moore, 28
 Hettiarachchy, N. S. *See* I. Paraman, 633
 Hirota, N., H. Kuroda, K. Takoi, T. Kaneko, H. Kaneda, I. Yoshida, M. Takashio, K. Ito, and K. Takeda. Brewing performance of malted lipoxygenase-1 null barley and effect on the flavor stability of beer, 250
 Hong, M.-C. *See* C.-C. Liu, 335
 Horigane, A. K., S. Naito, M. Kurimoto, K. Irie, M. Yamada, H. Motoi, and M. Yoshida. Moisture distribution and diffusion in cooked spaghetti studied by NMR imaging and diffusion model, 235
 Huang, C.-P. *See* T. Tesso, 194
 Huber, K.C. *See* B. P. Geera, 544, 551, 558
 Inglett, G. E. *See* J. Xu, 37
 Inouchi, N. *See* M. Okuda, 143
 Ioerger, B. P. *See* S. R. Bean, 99
 Irie, K. *See* A. K. Horigane, 235
 Islas-Hernández, J. J. *See* L. A. Bello-Pérez, 188
 Ito, K. *See* N. Hirota, 250
 Izidorczyk, M. S. *See* S. L. Lagassé, 202
 Jannink, J.-L. *See* D. C. Doeblert, 114
 —, —, *See* N. Yao, 692
 Jiang, L. *See* H. L. Wang, 402
 Johnson, L. A. *See* N. Vignaux, 482
 Johnston, D. B. *See* G. S. Murthy, 455
 Jones, D. *See* G. Ganjyal, 223
 Kahlon, T. S., J. de J. Berrios, G. E. Smith, and J. L. Pan. Extrusion conditions modify hypocholesterolemic properties of wheat bran fed to hamsters, 152
 —, —, —, and —. In vitro bile acid binding capacity of milled wheat bran and milled extruded wheat bran at five specific mechanical energy levels, 434
 —, —, —, and —. In vitro bile acid binding capacity of wheat bran extruded at five specific mechanical energy levels, 157
 Kaneda, H. *See* N. Hirota, 250
 Kasai, T. *See* Y. Muramatsu, 617
 Kato-Emori, S. *See* H. Yano, 132
 Khan, K. *See* R. Sharadanan, 411
 —, —, *See* Y. G. Wang, 293
 Kiribuchi-Otobe, C., M. Fujita, H. Matsunaka, and M. Sekine. Properties of cross-linked starch from waxy mutant wheat Tankei A6599-4, 590
 —, —, *See* T. Yanagisawa, 354
 Kiyokawa, Y. *See* S. Furukawa, 439
 Koseki, T. *See* M. Okuda, 143
 Kuo, M.-I., and Y.-J. Wang. Note: Effects of urea concentration on thermal and rheological properties of rice starches, 478
 Kurimoto, M. *See* A. K. Horigane, 235
 Kuroda, H. *See* N. Hirota, 250
 Kuroda, S. *See* H. Yano, 132
 Kusada, O. *See* H. Yano, 132
 Lagassé, S. L., D. W. Hatcher, J. E. Dexter, B. G. Rossenagel, and M. S. Izidorczyk. Quality characteristics of fresh and dried white salted noodles enriched with flour from hull-less barley genotypes of diverse amylase content, 202
 Lamberts, L., E. De Bie, V. Derycke, W. S. Veraverbeke, W. De Man, and J. A. Delcour. Effect of processing conditions on color change of brown and milled parboiled rice, 80
 Lanning, S. P. *See* D. Nash, 255
 Greffeuil, C. *See* V. Greffeuil, 641
 Lawton, J. W. Isolation of zein using 100% ethanol, 565
 León, A. E. *See* P. Roccia, 243
 Lerner, S. E. *See* W. J. Rogers, 677
 Lewamy, M. *See* T. Tesso, 194
 Li, W., B. J. Dobraszczyk, A. Dias, and A. M. Gil. Polymer conformation structure of wheat proteins and gluten subfractions revealed by ATR-FTIR, 407
 Lin, L.-H., F.-M. Lu, and Y.-C. Chang. Development of a near-infrared imaging system for determination of rice moisture, 498

- Liu, C.-C., J.-T. Shaw, K.-Y. Poong, M.-C. Hong, and M.-L. Shen. Wavelength selection for classifying paddy rice by near-infrared spectroscopy, 335
- Lookhart, G. L. *See* F. E. Dowell, 529
 —, *See* E. B. Maghirang, 520
- Lu, F.-M. *See* L.-H. Lin, 498
- Lukow, O. M. *See* S. Sun, 340
- Lullien-Pellerin, V. *See* V. Grefeuille, 641
- Machet, A.-S. *See* M. Wang, 161
- Maghirang, E. B., G. L. Lookhart, S. R. Bean, R. O. Pierce, F. Xie, M. S. Caley, J. D. Wilson, B. W. Seabourn, M. S. Ram, S. H. Park, O. K. Chung, and F. E. Dowell. Comparison of quality characteristics and breadmaking functionality of hard red winter and hard red spring wheat, 520
 —, *See* F. E. Dowell, 529, 537
- Martin, J. M. *See* D. Nash, 255
- Martínez-Bustos, F. *See* E. Aguilar-Palazuelos, 363
- Masumura, T. *See* S. Furukawa, 439
- Matsler, A. L. *See* T. J. Siebenmorgen, 169
- Matsuoka, H. *See* C. Kiribuchi-Otobe, 590
- McClung, A. M. *See* A. Aboubacar, 93
- McMullen, M. S. *See* D. C. Doehlert, 114
- Meullenet, J.-F. *See* N. T. W. Cooper, 447
 —, *See* T. J. Siebenmorgen, 275
- Miller, C. *See* V. Singh, 317, 321
- Miyamoto, Y., and K. Nishimura. Production of thiyl radical on a peptide derived from wheat protein by superoxide anion radical, 472
- Moiraghi, M. *See* P. Roccia, 243
- Moldenhauer, K. A. K. *See* A. Aboubacar, 93
- Molfese, E. R. *See* W. J. Rogers, 677
- Moore, M. M., M. Heinbockel, P. Dockery, H. M. Ulmer, and E. K. Arendt. Network formation in gluten-free bread with application of transglutaminase, 28
- Moreau, R. A. *See* R. Srinivasan, 324
- Moreira, R. *See* F. J. Bueso, 348
- Morris, C. F. *See* S. M. Finnie, 629, 684
 —, *See* E. P. Fuerst, 10
 —, *See* C. S. Gaines, 284
- Morrison, S. C. *See* D. Every, 57
- Motoi, H. *See* A. K. Horigane, 235
- Muramatsu, Y., A. Tagawa, E. Sakaguchi, and T. Kasai. Water absorption characteristics and volume changes of milled and brown rice during soaking, 617
- Murphy, G. S., V. Singh, D. B. Johnston, K. D. Rausch, and M. E. Tumbleson. Evaluation and strategies to improve fermentation characteristics of modified dry-grind corn processes, 455
- Naito, S. *See* A. K. Horigane, 235
- Narváez-González, E. D., J. de Dios Figueroa-Cárdenas, S. Taba, E. Castaño-Tostado, R. Alvar-Martínez-Peniche, and F. R. Sánchez. Relationships between the microstructure, physical features, and chemical composition of different maize accessions from Latin America, 595
 —, —, —, and F. R. Sánchez. Kernal microstructure of Latin American races of maize and their thermal and rheological properties, 605
- Nash, D., S. P. Lanning, P. Fox, J. M. Martin, N. K. Blake, E. Souza, R. A. Graybosch, M. J. Giroux, and L. E. Talbert. Relationship of dough extensibility to dough strength in a spring wheat cross, 255
- Nelson, J. E. *See* B. P. Geera, 544, 551, 558
- Nishimura, K. *See* Y. Miyamoto, 472
- Niu, Y. X. *See* L. Cabrales, 22
- Noomhorm, A. *See* G. Ganjyal, 223
- Nygard, G. *See* Y. G. Wang, 293
- O'Brien, A. *See* X. Wu, 569
- Ogawa, Y., D. F. Wood, L. C. Whitehand, W. J. Orts, and G. M. Glenn. Compression deformation and structural relationships of medium grain cooked rice, 636
- Ogihara, Y. *See* S. Furukawa, 439
- Ohm, J.-B., A. S. Ross, Y.-L. Ong, and C. J. Peterson. Using multivariate techniques to predict wheat flour dough and noodle characteristics from size-exclusion HPLC and RVA data, 1
- Okuda, M., I. Aramaki, T. Koseki, N. Inouchi, and K. Hashizume. Structural and retrogradation properties of rice endosperm starch affect enzyme digestibility of steamed milled-rice grains used in sake production, 143
- Ong, Y.-L. *See* J.-B. Ohm, 1
- Orts, W. *See* B.-S. Chiou, 300
 —, *See* Y. Ogawa, 636
- Ounane, G., B. Cuq, J. Abecassis, A. Yesli, and S. M. Ounane. Effects of physicochemical characteristics and lipid distribution in Algerian durum wheat semolinas on the technological quality of couscous, 377
- Ounane, S. M. *See* G. Ounane, 377
- Padua, G. W. *See* Y. Wang, 331
- Pan, J. L. *See* T. S. Kahlon, 152, 157, 434
- Paraman, I., N. S. Hettiarachchy, C. Schaefer, and M. I. Beck. Physico-chemical properties of rice endosperm proteins extracted by chemical and enzymatic methods, 633
- Park, S. H., S. R. Bean, O. K. Chung, and P. A. Seib. Levels of protein and protein composition in hard winter wheat flours and the relationship to breadmaking, 428
 —, —, J. D. Wilson, and T. J. Schober. Rapid isolation of sorghum and other cereal starches using sonication, 611
 —, *See* S. R. Bean, 99
 —, *See* E. B. Maghirang, 520
 —, *See* Z. S. Xiao, 465
- Patel, B. K., D. Saibene, and K. Seetharaman. Restriction of starch granule swelling by iodine during heating, 173
- Payne-Wahl, K. L. *See* Y. V. Wu, 228
- Pedersen, J. F. *See* S. R. Bean, 108
- Percibaldi, N. M. *See* F. Borras, 86
- Pérez, G. T. *See* P. Roccia, 243
- Peterson, C. J. *See* J.-B. Ohm, 1
- Pierce, R. O. *See* F. E. Dowell, 529
 —, *See* E. B. Maghirang, 520
- Ponzi, N. R. *See* W. J. Rogers, 677
- Poong, K.-Y. *See* C.-C. Liu, 335
- Powers, J. *See* Z. Quinde-Axtell, 385
- Prinyawiwatkul, W. *See* T. Sun, 451
- Qian, H.-F. *See* K.-X. Zhu, 69
- Quinde-Axtell, Z., J. Powers, and B.-K. Baik. Retardation of discoloration in barley flour gel and dough, 385
- Raboy, V. *See* P. Bregitzer, 460
- Ram, M. S. *See* E. B. Maghirang, 520
- Rampitsch, C., B. Bizimungu, N. Ames, and L. Rothwell. Note: Early generation β-glucan selection in oat using a monoclonal antibody-based enzyme-linked immunosorbent assay, 510
- Rausch, K. D. *See* G. S. Murthy, 455
 —, *See* V. Singh, 317, 321
 —, *See* R. Srinivasan, 324
 —, *See* M. R. Wilkins, 121, 311
- Rayas-Duarte, P. *See* A. L. Romero-Baranzini, 358
- Rendón-Villalobos, J. R. *See* L. A. Bello-Pérez, 188
- Ribotta, P. D. *See* P. Roccia, 243
- Robertson, G. H., K. S. Gregorski, and T. K. Cao. Changes in secondary protein structures during mixing development of high absorption (90%) flour and water mixtures, 136
- Robutti, J. L. *See* F. Borras, 86
 —, *See* W. J. Rogers, 677
- Roccia, P., M. Moiraghi, P. D. Ribotta, G. T. Pérez, O. J. Rubiolo, and A. E. León. Use of solvent retention capacity profile to predict the quality of triticale flours, 243
- Rodríguez, O. G. *See* A. L. Romero-Baranzini, 358
- Rogers, W. J., M. Cogliatti, S. E. Lerner, N. R. Ponzi, J. L. Robutti, A. M. Di Martino, F. S. Borrás, M. L. Seghezzo, and E. R. Molfese. Effects of nitrogen and sulfur fertilizers on gliadin composition of several cultivars of durum wheat, 677
- Romero-Baranzini, A. L., O. G. Rodriguez, G. A. Yanez-Farias, J. M. Barron-Hoyos, and P. Rayas-Duarte. Chemical, physicochemical, and nutritional evaluation of plantago (*Plantago ovata* Forsk.), 358
- Rooney, L. W. *See* F. J. Bueso, 348
- Rosell, C. M. *See* A. Bonet, 655
 —, *See* C. Collar, 370
- Rosén, J. *See* M. Fink, 218
- Ross, A. S. Review: Instrumental measurement of physical properties of cooked Asian wheat flour noodles, 42
 —, *See* J.-B. Ohm, 1
- Ross, M. P. *See* D. Every, 57, 62, 315
- Rossnagel, B. G. *See* S. L. Lagassé, 202
- Rothwell, L. *See* C. Rampitsch, 510
- Rubiolo, O. J. *See* P. Roccia, 243
- Sahlstrom, S., A. B. Bævre, and R. Graybosch. Impact of waxy, partial waxy, and wildtype wheat starch fraction properties on hearth bread characteristics, 647
- Saibene, D. *See* B. K. Patel, 173
- Sakaguchi, E. *See* Y. Muramatsu, 617
- Sambucetti, M. E. *See* A. Zuleta, 76
- Sánchez, F. R. *See* E. D. Narváez-González, 595, 605
- Santos, E. *See* C. Collar, 370

- Sapirstein, H. D. *See* M. Wang, 161
 Schaefer, C. *See* I. Paraman, 633
 Schober, T. J. *See* S. H. Park, 17, 611
 Seabourn, B. W. *See* F. E. Dowell, 529
 —. *See* E. B. Maghirang, 520
 Seetharaman, K. *See* F. Borras, 86
 —. *See* F. J. Bueso, 348
 —. *See* B. K. Patel, 173
 Seghezzo, M. L. *See* W. J. Rogers, 677
 Seib, P. A. *See* S. H. Park, 418
 —. *See* J. D. Wilson, 259
 —. *See* X. Wu, 569
 —. *See* Z. S. Xiao, 465
 Sekine, M. *See* C. Kiribuchi-Otobe, 590
 Sharadanant, R., and K. Khan. Effect of hydrophilic gums on the quality of frozen dough: Electron microscopy, protein solubility, and electrophoresis studies, 411
 Shaw, J.-T. *See* C.-C. Liu, 335
 Shen, M.-L. *See* C.-C. Liu, 335
 Shey, J. *See* B.-S. Chiou, 300
 Siebenmorgen, T. J., A. L. Matsler, and C. F. Earp. Milling characteristics of rice cultivars and hybrids, 169
 —, R. C. Bautista, and J.-F. Meullenet. Predicting rice physicochemical properties using thickness fraction properties, 275
 —. *See* N. T. W. Cooper, 447
 Simmons, L. D. *See* D. Every, 57, 62, 315
 —. *See* K. H. Sutton, 52
 Singh, V., C. J. Batie, G. W. Aux, K. D. Rausch, and C. Miller. Dry-grind processing of corn with endogenous liquefaction enzymes, 317
 —, K. D. Rausch, and C. Miller. Wet-milling and dry-milling properties of dent corn with addition of amylase corn, 321
 —. *See* S. R. Bean, 99
 —. *See* G. S. Murthy, 455
 —. *See* R. Srinivasan, 324
 —. *See* M. R. Wilkins, 121, 311
 Sissons, M. J. *See* H. N. Soh, 513
 Small, D. M. *See* L. Cato, 491
 Smith, G. E. *See* T. S. Kahlon, 152, 157, 434
 Soh, H. N., M. J. Sissons, and M. A. Turner. Effect of starch granule size distribution and elevated amylose content on durum dough rheology and spaghetti cooking quality, 513
 Souza, E. *See* S. R. Delwiche, 287
 —. *See* B. P. Geera, 544, 551, 558
 —. *See* D. Nash, 255
 Srinivasan, R., V. Singh, R. L. Belyea, K. D. Rausch, R. A. Moreau, and M. E. Tumbleson. Economics of fiber separation from distillers dried grains with solubles (DDGS) using sieving and elutriation, 324
 Sun, S., B. M. Watts, O. M. Lukow, and S. D. Arntfield. Effects of micronization on protein and rheological properties of spring wheat, 340
 Sun, T., Z. Xu, J. S. Godber, and W. Prinyawiwatkul. Capabilities of oat extracts in inhibiting cholesterol and long chain fatty acid oxidation during heating, 451
 Supprung, P. *See* G. Ganjyal, 223
 Sutton, K. H., and L. D. Simmons. Molecular level protein composition of flour mill streams from a pilot-scale flour mill and its relationship to product quality, 52
 Taba, S. *See* E. D. Narváez-González, 595, 605
 Tagawa, A. *See* Y. Muramatsu, 617
 Takashio, M. *See* N. Hirota, 250
 Takayama, T. *See* T. Yanagisawa, 354
 Takeda, K. *See* N. Hirota, 250
 Takoi, K. *See* N. Hirota, 250
 Talbert, L. E. *See* D. Nash, 255
 Tanaka, K. *See* S. Furukawa, 439
 Tandjung, A. *See* T. Tesso, 194
 Temelli, F. *See* Z. Burkus, 584
 Tesso, T., G. Ejeta, A. Chandrashekhar, C.-P. Huang, A. Tandjung, M. Lewamy, J. D. Axtell, and B. R. Hamaker. A novel modified endosperm texture in a mutant high-protein digestibility/high-lysine grain sorghum (*Sorghum bicolor* (L.) Moench), 194
 Thompson, D. B. *See* H. Xia, 668
 Tilley, M. *See* H. Akdogan, 632
 Todd, T. C. *See* J. D. Wilson, 259
 Tseng, Y. *See* J. Xu, 37
 Tuinstra, M. R. *See* S. R. Bean, 108
 —. *See* X. Wu, 569
 Tumbleson, M. E. *See* G. S. Murthy, 455
 —. *See* R. Srinivasan, 324
 —. *See* M. R. Wilkins, 121, 311
 Turner, M. A. *See* H. N. Soh, 513
 Ulmer, H. M. *See* M. M. Moore, 28
 Vander Kant, C. *See* C. S. Gaines, 284
 Vaughn, S. F. *See* Y. V. Wu, 228
 Veraverbeke, W. S. *See* L. Lamberts, 80
 Vignaux, N., S. R. Fox, and L. A. Johnson. A 10-g laboratory wet-milling procedure for maize and comparison with larger scale laboratory procedures, 482
 Wakai, Y. *See* S. Furukawa, 439
 Wallig, M. A. *See* M. R. Wilkins, 121, 311
 Wan, J. M. *See* H. L. Wang, 402
 Wan, X. Y. *See* H. L. Wang, 402
 Wang, D. *See* D. Y. Corredor, 17
 —. *See* X. Wu, 127, 316, 569
 Wang, H. L., X. Y. Wan, J. C. Bi, J. K. Wang, L. Jiang, L. M. Chen, H. Q. Zhai, and J. M. Wan. Quantitative analysis of fat content in rice by near-infrared spectroscopy technique, 402
 Wang, J. K. *See* H. L. Wang, 402
 Wang, M., H. D. Sapirstein, A.-S. Machet, and J. E. Dexter. Composition and distribution of pentosans in millstreams of different hard spring wheats, 161
 Wang, Y., and G. W. Padua. Water barrier properties of zein-oleic acid films, 331
 Wang, Y. G., K. Khan, G. Harelund, and G. Nygard. Quantitative glutenin composition from gel electrophoresis of flour mill streams and relationship to breadmaking quality, 293
 Wang, Y.-J., S. W. Chong, and W. Yang. Note: Effect of pericarp removal on properties of wet-milled corn starch, 25
 —. *See* D. K. Cameron, 505
 —. *See* M.-I. Kuo, 478
 Waniska, R. D. *See* F. J. Bueso, 348
 Watts, B. M. *See* S. Sun, 340
 White, P. J. *See* N. Yao, 692
 Whitehand, L. C. *See* Y. Ogawa, 636
 Wijngaard, H. H., and E. K. Arendt. Review: Buckwheat, 391
 Wilkins, M. R., R. L. Belyea, V. Singh, P. Burriak, M. A. Wallig, M. E. Tumbleson, and K. D. Rausch. Analysis of heat transfer fouling by dry-grind maize thin stillage using an annual fouling apparatus, 121
 —, V. Singh, R. L. Belyea, P. Burriak, M. A. Wallig, M. E. Tumbleson, and K. D. Rausch. Effect of pH on fouling characteristics and deposit compositions in dry-grind thin stillage, 311
 Wilson, J. D., D. B. Bechtel, T. C. Todd, and P. A. Seib. Measurement of wheat starch granule size distribution using image analysis and laser diffraction technology, 259
 —. *See* F. E. Dowell, 529
 —. *See* E. B. Maghirang, 520
 —. *See* S. H. Park, 611
 —. *See* X. Wu, 127, 316
 Wood, D. F. *See* B.-S. Chiou, 300
 —. *See* Y. Ogawa, 636
 Wu, J., T. Beta, and H. Corke. Effects of salt and alkaline reagents on dynamic rheological properties of raw oriental wheat noodles, 211
 Wu, X., D. Wang, S. R. Bean, and J. P. Wilson. Ethanol production from pearl millet using *Saccharomyces cerevisiae*, 127, 316
 —, X., R. Zhao, D. Wang, S. R. Bean, P. A. Seib, M. R. Tuinstra, M. Campbell, and A. O'Brien. Effects of amylose, corn protein, and corn fiber contents on production of ethanol from starch-rich media, 569
 Wu, Y. V., K. L. Payne-Wahl, and S. F. Vaughn. Corn gluten meal odorants and volatiles after treatment to improve flavor, 228
 Xia, H., and D. B. Thompson. Debranching of β -dextrins to explore branching patterns of amylopectins from three maize genotypes, 668
 Xiao, Z. S., S. H. Park, O. K. Chung, M. S. Caley, and P. A. Seib. Solvent retention capacity values in relation to hard winter wheat and flour properties and straight-dough breadmaking quality, 465
 Xie, F. *See* F. E. Dowell, 529
 —. *See* E. B. Maghirang, 520
 Xu, J., T. Chang, G. E. Inglett, C. J. Carriere, and Y. Tseng. Multiple-particle tracking study of microheterogeneity of Nutrim-10 suspensions, 37
 Xu, Z. *See* T. Sun, 451
 Yamada, M. *See* A. K. Horikane, 235
 Yan, Z. *See* W. E. Barbeau, 306
 Yanagisawa, T., E. Domon, M. Fujita, C. Kiribuchi-Otobe, and T. Takayama. Starch pasting properties and amylose content from 17 waxy barley lines, 354
 Yanez-Farias, G. A. *See* A. L. Romero-Baranzini, 358

- Yang, W. *See* Y.-J. Wang, 25
Yano, H., O. Kusada, S. Kuroda, and S. Kato-Emori. Disulfide proteome analysis of buckwheat seeds, 132
Yao, N., J.-L. Jannink, S. Alavi, and P. J. White. Physical and sensory characteristics of extruded products made from two oat lines with different β -glucan concentrations, 692
_____. *See* F. Borras, 86
Yee, E. *See* B.-S. Chiou, 300
Yeh, A.-I. *See* G. C.-C. Chuang, 179
Yesli, A. *See* G. Ounane, 377
Yoshida, I. *See* N. Hirota, 250
Yoshida, M. *See* A. K. Horigane, 235
Zazueta-Morales, J. de J. *See* E. Aguilar-Palazuelos, 363
Zhai, H. Q. *See* H. L. Wang, 402
Zhao, R. *See* X. Wu, 569
Zhou, H.-M. *See* K.-X. Zhu, 69
Zhu, K.-X., H.-M. Zhou, and H.-F. Qian. Proteins extracted from defatted wheat germ: Nutritional and structural properties, 69
Zuleta, A., L. Dyner, M. E. Sambucetti, and A. de Francisco. Effect of gamma irradiation on the functional and nutritive properties of rice flours from different cultivars, 76

Subject Index to Volume 83

Page numbers of errata are in italic.

- Absorption, water, of rice during soaking (Muramatsu et al), 617
- Amino acids, composition and classification, to calculate predicted nutritional parameters of defatted wheat germ protein fractions and protein isolate (Zhu et al), 69
- α -Amylase, effect on quality of Asian white salted noodles (Cato et al), 491
- Amylopectin
 - location effect on rice, fine structure and thermal properties (Aboubacar et al), 93
 - from maize genotypes; β -dextrin debranching to explore branching patterns (Xia and Thompson), 668
- Amylose
 - effect on production of ethanol from starch-rich media (Zhao et al), 569
 - location effect on rice (Aboubacar et al), 93
 - measuring in single kernels (Dowell et al), 537
 - from waxy barley lines (Yanagisawa et al), 354
 - in wheat starch (Soh et al), 513
- Anion, radical produced by ascorbic acid (Miyamoto and Nishimura), 472
- Antioxidant, activity; capable of scavenging free radicals and preventing cholesterol and fatty acid oxidation (Sun et al), 451
- Arabinoxylans
 - in soft wheat; cultivar and environment influence (Finnie et al), 629
 - in wheat bran and shorts (Wang et al), 161
- Ascorbic acid, beneficial effect on bread (Miyamoto and Nishimura), 472
- Authors, instructions to, v
- Baking
 - predicting quality (Dowell et al), 529
 - properties; loaf volume and crumb texture values combined to give bake score value (Every et al), 62, 315
- Barley
 - brewing performance of lipoxygenase-I mutant in (Hirota et al), 250
 - flour gel and dough; discoloration retardation (Quinde-Axtell et al), 385
 - β -glucan network formation (Burkus and Temelli), 584
 - hull-less, white salted noodle characteristics (Lagassé et al), 202
 - low-phytate mutations; seed phosphorus and malting affected by (Bregitzer and Raboy), 460
 - storage of flours and flakes (Fastnauft et al), 424
- Bile acid
 - binding; extruded wheat bran (Kahlon et al), 157
 - binding of milled and milled extruded wheat bran (Kahlon et al), 434
- Bran
 - arabinoxylans in wheat milling fractions (Wang et al), 161
 - size distribution at milling; characterization of wheat grain outer layers (Greffeuille et al), 641
- Bread
 - ascorbic acid benefit on (Miyamoto and Nishimura), 472
 - comparing HRS and HRW wheat (Maghirang et al), 520
 - hearth, wheat starch fraction property impact on (Sahlstrom et al), 647
 - loaf volume; factors affecting (Xiao et al), 465
 - predicting quality (Dowell et al), 529
 - yeast-leavened, asparagines and glycine effect on acrylamide content in (Fink et al), 218
- Breadmaking
 - effect of protein content and composition (Park et al), 418
 - factors affecting quality (Maghirang et al), 520
 - of flour mill streams (Wang et al), 293
- Buckwheat
 - nutritional and chemical characteristics, review (Wijngaard and Arendt), 391
 - putative allergens in (Yano et al), 132
- Carbohydrates, starch, fiber, D-chiro-inositol, and fagopyritols in buckwheat (Wijngaard and Arendt), 391
- Celiac disease, gluten-sensitive enteropathy (Moore et al), 28
- Chickpea, bread fortified with hulls and fibers from (Dalgatty and Baik), 269
- Chlorination, flour, influence on pancake quality (Finnie et al), 684
- Color, change of brown and milled parboiled rice, processing effect (Lamberts et al), 80
- Cooking, for reduction of legumes (Hun and Baik), 428
- Corn
 - degermed flour, starch isolation (Cameron and Wang), 505
 - dent, wet- and dry-milling properties of (Singh et al), 321
 - gluten meal; flavor and odor volatiles after treatment to improve flavor (Wu et al), 228
 - hybrid starch yield and pasting properties of, pH effect (Cabralas et al), 22
 - starch; extrusion of (Aguilar-Palazuelos et al), 363
 - transgenic, dry-grind processing of (Singh et al), 317
 - wet milling (Wang et al), 25
- Corn starch, pericarp removal on extraction of (Wang et al), 25
- Cultivar, influence on arabinoxylans in soft wheat (Finnie et al), 629
- DDGS
 - composition; sorghum (Corredor et al), 17
 - fiber separation from, using sieving and elutriation (Srinivasan et al), 324
 - heat transfer fouling by dry-grind maize thin stillage (Wilkins et al), 121
 - pearl millet, quality, composition (Wu et al), 127, 316
 - pH effect on fouling characteristics in (Wilkins et al), 311
- Dietary fiber, on viscometric pattern of flour-fiber blends (Collar et al), 370
- Differential scanning calorimetry, for analysis of thermal properties of defatted wheat germ fractions and protein isolate (Zhu et al), 69
- Disulfide, proteome; to identify putative allergens (Yano et al), 132
- Dough
 - extensibility; relation to dough strength in spring wheat cross (Nash et al), 255
 - frozen, quality containing gums (Sharadanant and Khan), 411
 - high absorption, secondary protein structures during mixing (Robertson et al), 136
- Electrophoresis
 - of proteins of frozen dough containing gums (Sharadanant and Khan), 411
 - SDS-PAGE of flour mill streams (Wang et al), 293
- ELISA, for early generation β -glucan selection in oat (Rampitsch et al), 510
- Endosperm, texture; in grain sorghum (Tesso et al), 194
- Environment, influence on arabinoxylans in soft wheat (Finnie et al), 629
- Enzymes, redox, relation to flour chemical and baking properties (Every et al), 62, 315
- Errata
 - vol. 82, no. 6, November-December 2005, page 724, 119
 - vol. 83, no. 1, January-February 2006, page 62, 315
 - vol. 83, no. 2, March-April 2006, page 128, 316
- Ethanol
 - dry-grind; corn processing with endogenous liquefaction enzymes (Singh et al), 317; yields affected by dry and wet fractionation (Murthy et al), 455
 - produced by dry-grind processing facilities (Wilkins et al), 311
 - production; of DDGS, decorticating sorghum effect of (Corredor et al), 17; from pearl millet (Wu et al), 127, 316; from starch-rich media; effect of amylose, corn protein, and corn fiber contents on (Zhao et al), 569
- Extraction, interaction between sorghum protein and precipitation conditions (Bean et al), 99
- Extrusion
 - of corn and potato starches and soybean meal (Aguilar-Palazuelos et al), 363
 - effect of moisture, screw speed, and temperature on nanoclay dispersion (Chiou et al), 300
 - effect on physical and sensory characteristics, oat lines, β -glucan concentration (Yao et al), 692
 - high-amylose starch acetate expansion, blowing agent role (Ganjyal and Hanna), 577
 - to modify hypocholesterolemic properties of wheat bran fed to hamsters (Kahlon et al), 152
- Fermentation, characteristics of dry-grind corn processes (Murthy et al), 455
- Fertilizer, sulfur, effect on gliadin composition of durum wheat (Rogers et al), 677
- Fiber
 - corn, effect on production of ethanol from starch-rich media (Zhao et al), 569
 - extraction of barley β -glucan (Burkus and Temelli), 584

- hull and cotyledon, isolated from peas, lentils, and chickpeas, bread fortification with (Dalgetty and Baik), 269
- separation from DDGS with sieving and elutriation (Srinivasan et al), 324
- Flavonoids, content and anti-oxidant properties in buckwheat (Wijngaard and Arendt), 391
- Flavor, stability of beer made from malted lipoxygenase-1 null mutant barley (Hirota et al), 250
- Flour
 - arabinoxylans in wheat milling fractions (Wang et al), 161
 - chemical and baking properties of, glutathione distribution (Every et al), 57
 - comparison of methods for gluten strength assessment (Gaines et al), 284
 - fiber blends; dietary fiber significance on viscometric pattern of (Collar et al), 370
 - quality predicted by SRC profile (Roccia et al), 243
 - rice, modeling selected properties by neural networks (Ganjyal et al), 223
 - storage of barley (Fastnaught et al), 424
 - from various mill streams (Wang et al), 293
 - wheat, homopolymer and heteropolymer formation, between protein sources and, cross-linking (Bonet et al), 655
- Foam, stability of beer made from malted lipoxygenase-1 null mutant barley (Hirota et al), 250
- Fouling
 - apparatus for heat transfer (Wilkins et al), 121
 - characteristics in dry-grind stillage, effect of pH (Wilkins et al), 311
- Fractionation
 - of defatted wheat germ flour proteins (Zhu et al), 69
 - dry and wet, effect on fermentation rates and ethanol yields (Murthy et al), 455
 - of proteins from frozen dough with gums (Sharadanant and Khan), 411
- Functionality
 - comparing HRS and HRW wheat (Maghirang et al), 520
 - prediction using NIRS (Dowell et al), 529
- Functional properties, viscosity and syneresis (Zuleta et al), 76
- Gelatinization, urea effect on, rice starch thermal and rheological properties (Kuo and Wang), 478
- Gliadin, composition of durum wheat; effect of nitrogen and sulfur fertilizers (Rogers et al), 677
- β -Glucan
 - gelation; role of impurities, rheology (Burkus and Temelli), 584
 - soluble fiber; with cholesterol-lowering properties (Rampitsch et al), 510; in wheat, barley, etc, (Xu et al), 37
- Glutathione, distribution in millstreams; relation to flour chemical and baking properties (Every et al), 57
- Gluten
 - comparison of methods for gluten strength assessment (Gaines et al), 284
 - free bread; produced from gluten-free cereals (Moore et al), 28
 - strength of winter wheats; sprout damage reduction in (Barbeau et al), 306
 - subfractions; polymer conformation structure of, revealed by ATR-FTIR (Li et al), 407
- Glutenin, subunit composition of flour mill streams (Wang et al), 293
- Grain
 - sorghum attribute measurement evaluation with SKCS (Bean et al), 108
 - texture: hard endosperm and enhanced nutrition (Tesso et al), 194
- Gum, on quality of frozen dough (Sharadanant and Khan), 411
- Hardness, measuring single kernels by NIRS (Dowell et al), 537
- HPLC, size-exclusion, separation on molecular size basis (Sutton and Simmons), 52
- Image analysis, starch size distribution compared to laser diffraction sizing (Wilson et al), 259
- Instrumental measurement, of physical properties of cooked Asian noodles (Ross), 42
- Iodine, starch granule swelling restriction (Patel et al), 173
- Legumes, composition and reduction factors (Hun and Baik), 428
- Lentil, bread fortified with hulls and fibers from (Dalgetty and Baik), 269
- Lipids, distribution in Algerian semolinas on couscous (Ounane et al), 377
- Lipoxygenase, in barley, null mutant, role in brewing (Hirota et al), 250
- Maize
 - genotypes; amylopectin branching patterns, β -dextrin debranching to explore (Xia and Thompson), 668
 - races; kernel microstructure (Narváez-González et al), 605; microstructure relation between physical features and chemical composition (Narváez-González et al), 595
 - wet milling and larger scale lab procedures compared (Vignaux et al), 482
- Method, gluten strength assessment methods compared (Gaines et al), 284
- Microscopy, SEM of frozen doughs containing gums (Sharadanant and Khan), 411
- Microstructure, of maize; relation between physical features and chemical composition (Narváez-González et al), 595; thermal and rheological properties (Narváez-González et al), 605
- Millstream, flours: glutathione distribution in, relation to flour chemical and baking properties (Every et al), 57; redox enzyme distribution, relation to flour chemical and baking properties (Every et al), 62, 315
- Mill stream, flour stream derived from particular system in flour mill (Sutton and Simmons), 52
- Milling
 - bran size distribution, wheat grain outer layer characterization (Greffeuille et al), 641
 - degree; head rice yield affected by rice cultivars and hybrids (Siebenmorgen et al), 169
 - quality of rice; weather data analysis (Cooper et al), 447
- Minerals, content in buckwheat (Wijngaard and Arendt), 391
- Mixing, effect on structure (Robertson et al), 136
- Mixograph, to determine recombinant inbred lines in spring wheat cross (Nash et al), 255
- Modeling, creep deformation, of glutinous rice cakes (Chuang and Yeh), 179
- Moisture, rice, determined by NIR imaging (Lin et al), 498
- MRI, moisture distribution and diffusion of cooked spaghetti (Horigane et al), 235
- Multiple-particle tracking, to measure physical properties of polymer solutions (Xu et al), 37
- NIR imaging, rice moisture determined by (Lin et al), 498
- NIR spectroscopy
 - analysis of rice fat content (Wang et al), 402
 - of durum wheat for waxy condition classification (Delwiche et al), 287
 - predicting quality and functionality (Dowell et al), 529
 - single kernel quality (Dowell et al), 537
 - wavelength selection for classifying paddy rice (Liu et al), 335
- Nixtamalization, evaluation of starch digestibility of tortillas with different procedures (Bello-Pérez et al), 188
- Noodles
 - Asian white salted, quality affected by α -amylases (Cato et al), 491
 - characteristics from HPLC and RVA data, multivariate techniques to predict (Ohm et al), 1
 - cooked Asian, instrumental measurement of physical properties of (Ross), 42
 - raw oriental wheat, salt and alkaline reagent effect (Wu et al), 211
 - white salted, quality characteristics (Lagassé et al), 202
- Nutrim-10, new food product containing 10% β -glucan (Xu et al), 37
- Nutritive properties, starch hydrolysis (Zuleta et al), 76
- Oat
 - early generation β -glucan selection in ELISA for (Rampitsch et al), 510
 - grain/groat size ratios; test weight physical basis (Doehlert et al), 114
 - lines; effect on physical and sensory characteristics of extruded products from (Yao et al), 692
 - phenolic, antioxidants in extract (Sun et al), 451
- Oligosaccharides, content of legumes, reduction factors (Hun and Baik), 428
- Oxidation, cholesterol, fatty acid; inhibited by antioxidants in oat (Sun et al), 451
- Pancakes, flour chlorination and ingredient effect on quality attributes (Finnie et al), 684
- Parboiling, color of milled rice affected by (Lamberts et al), 80
- Pasting properties
 - selected corn hybrids, laboratory batch steeping pH effect on (Cabralles et al), 22
 - from waxy barley lines (Yanagisawa et al), 354
- Pea, bread fortified with hulls and fibers from (Dalgetty and Baik), 269
- Pearl millet, ethanol yield, bioconversion rate composition (Wu et al), 127, 316
- Pentosans, in wheat millstreams (Wang et al), 161
- Physicochemical properties
 - in Algerian semolinas on couscous (Ounane et al), 377
 - of rice proteins extracted by chemical and enzymatic methods (Paraman et al), 663
 - rice, thickness fraction properties (Siebenmorgen et al), 275
- Phytate, low in barley, seed phosphorus and malting affected by (Bregitzer and Raboy), 460
- Plantago, chemical, physicochemical, and nutritional evaluation of (Romero-Baranzini), 358
- Polyphenol oxidase, in wheat grain (Fuerst et al), 10
- Popcorn, corn varieties used to make (Borras et al), 86
- Potato, starch; extrusion of (Aguilar-Palazuelos et al), 363

- Protein**
- content; measuring in single kernels (Dowell et al), 537
 - content and quality in buckwheat (Wijngaard and Arendt), 391
 - corn, effect on production of ethanol from starch-rich media (Zhao et al), 569
 - extraction and precipitation interaction, sorghum (Bean et al), 99
 - extraction; nutritional and structural properties of defatted wheat germ (Zhu et al), 69
 - fractionation from frozen dough containing gums (Sharadanant and Khan), 411
 - homopolymer and heteropolymer formation, between wheat flour and, cross-linking (Bonet et al), 655
 - level and composition in flours; relation to breadmaking (Park et al), 418
 - micronization effects on wheat flour solubility fractions (Sun et al), 340
 - molecular weight distribution of (Ohm et al), 1
 - network formation; transglutaminase application in gluten-free bread (Moore et al), 28
 - predicting quality by NIRS (Dowell et al), 529
 - quality of HRS and HRW wheat (Maghirang et al), 520
 - secondary structure; related to mixing (Robertson et al), 136
- Retardation, of discoloration in barley flour gel and dough (Quinde-Axtell et al), 385
- Retrogradation
- of starch (Bueso et al), 348
 - of tortillas elaborated with different procedures (Bello-Pérez et al), 188
- Reviewers, acknowledgment of, iii
- Rheological properties
- kernel microstructure of maize races (Narváez-González et al), 605
 - of micronized wheat flours (Sun et al), 340
 - of raw oriental wheat noodles, salt and alkaline reagent effect (Wu et al), 211
- Rice
- brown and milled parboiled, processing effect on color change (Lamberts et al), 80
 - cakes; creep deformation modeling of (Chuang and Yeh), 179
 - cooked, compression deformation and structural relationships (Ogawa et al), 636
 - endosperm proteins; physicochemical properties of (Paraman et al), 663
 - endosperm starch; structural and retrogradation properties (Okuda et al), 143
 - fat content; analysis by NIR spectroscopy (Wang et al), 402
 - flour and starch, modeling selected properties by neural networks (Ganjyal et al), 223
 - flours from different varieties; high, intermediate, and low amylase content (Zuleta et al), 76
 - location effect; starch properties (Aboubacar et al), 93
 - millling characteristics (Siebenmorgen et al), 169; quality variation (Cooper et al), 447
 - moisture; determined by NIR imaging (Lin et al), 498
 - physicochemical properties predicted with thickness fraction properties (Siebenmorgen et al), 275
 - proteins; effect on cooked rice and sake aroma and flavor (Furukawa et al), 439
 - water absorption and volume changes, effect of milling yield and temperature (Muramatsu et al), 617
 - wavelength selection for classifying paddy rice by NIR spectroscopy (Liu et al), 335
- RVA, multivariate techniques to predict wheat flour dough and noodle characteristics from (Ohm et al), 1
- Sake
- aroma and flavor; rice protein effect on (Furukawa et al), 439
 - retrogradation properties of starch, enzyme digestibility of milled-rice grains in (Okuda et al), 143
- Salt, effect on rheological properties of raw oriental wheat noodles (Wu et al), 211
- Scanning electron microscopy, of gamma irradiated rice flours (Zuleta et al), 76
- Semolina, durum wheat, effect on couscous, Algeria (Ounane et al), 377
- SKCS, evaluation for measurement of sorghum grain attributes (Bean et al), 108
- Solvent retention capacity, relation to HWW and flour properties and breadmaking (Xiao et al), 465
- Sonication
- for isolation of sorghum and cereal starches (Park et al), 611
 - pericarp removal (Wang et al), 25
- Sorghum
- endosperm texture (Tesso et al), 194
 - ethanol yield (Corredor et al), 17
 - grain attributes; measurement evaluation with SKCS (Bean et al), 108
 - protein extraction and precipitation conditions; interaction between (Bean et al), 99
 - sonication for rapid isolation of (Park et al), 611
- Soybean, meal; extrusion of (Aguilar-Palazuelos et al), 363
- Spaghetti
- cooking quality; effect of starch granule size and amylose content on (Soh et al), 513
 - moisture distribution and diffusion analyzed by MRI and Fickian model (Horigane et al), 235
- Staling, of tortillas, effect of emulsifiers (Akdogan et al), 632
- Starch
- acetate; expansion during extrusion, blowing agent role (Ganjyal and Hanna), 577
 - amylose-free kernels, selecting by NIRS (Dowell et al), 537
 - cereal, sonication for rapid isolation of (Park et al), 611
 - characteristics; growing environment-induced fluctuations in relation to flour pasting properties of wild-type and partial waxy soft wheats (Geera et al), 558
 - composition and properties of A- and B-type granules (Geera et al), 551
 - corn, isolation from degenerated corn flour by protease and high-intensity ultrasound (Cameron and Wang), 505
 - cross-linked, properties (Kiribuchi-Otobe et al), 590
 - digestibility in tortillas (Bello-Pérez et al), 188
 - granule bound starch synthase I gene effects (Geera et al), 544
 - granule size distribution; image analysis and laser diffraction particle sizing (Wilson et al), 259
 - granule sizes; effect on spaghetti cooking quality (Soh et al), 513
 - granule swelling restriction; iodine during heating (Patel et al), 173
 - nanoclay composites; produced by twin-screw extrusion (Chiou et al), 300
 - pasting properties; from waxy barley lines (Yanagisawa et al), 354
 - retrogradation; enzyme digestibility of milled-rice grains in sake (Okuda et al), 143
 - rice; modeling selected properties by neural networks (Ganjyal et al), 223; thermal and rheological properties, urea effect on gelatinization (Kuo and Wang), 478
 - yield affected by laboratory batch steeping pH (Cabralles et al), 22
- Storage, of barley products (Fastnacht et al), 424
- Storage proteins, of wheat flour (Sutton and Simmons), 52
- Temperature
- effect on corn tortilla texture (Bueso et al), 348
 - environmental, effect on rice milling quality (Cooper et al), 447
- Test weight, physical basis for oat grain/groat size ratios (Doehlert et al), 114
- Texture
- of cooked rice; compression deformation and structural relationships (Ogawa et al), 636
 - of corn tortillas; temperature effect on (Bueso et al), 348
- Tortillas
- corn, temperature effect on texture of (Bueso et al), 348
 - effect of emulsifiers (Akdogan et al), 632
 - glycemic index (Bello-Pérez et al), 188
- Triticale, flours; SRC profile to predict quality of (Roccia et al), 243
- Vitamins, content in buckwheat (Wijngaard and Arendt), 391
- Water
- distribution and diffusion of cooked spaghetti analyzed by MRI and Fickian model (Horigane et al), 235
 - vapor permeability; of zein films prepared with oleic acid (Wang and Padua), 331
- Wet milling
- larger scale lab procedures compared to (Vignaux et al), 482
 - yields affected by addition of amylase corn (Singh et al), 321
- Wheat
- comparing quality of HRS and HRW (Maghirang et al), 520
 - dough; pasting and gelling properties (Collar et al), 370
 - durum; gliadin composition affected by nitrogen and sulfur fertilizers (Rogers et al), 677; single kernel NIR spectroscopy for waxy condition classification (Delwiche et al), 287
 - flour pasting properties of wild-type and partial waxy soft wheats (Geera et al), 558
 - grain; polyphenol oxidase in (Fuerst et al), 10
 - hard winter, effect of SRC on breadmaking quality (Xiao et al), 465
 - micronization effects on protein and rheological properties (Sun et al), 340
 - millstreams; pentosans and arabinoxylans in (Wang et al), 161
 - predicting grain, flour, dough, and bread quality (Dowell et al), 529
 - proteins; polymer conformation structure of, revealed by ATR-FTIR (Li et al), 407
 - quality; dough extensibility relation to dough strength (Nash et al), 255

- rapid quality measurement (Dowell et al), 537
 - soft, arabinoxylans influenced by cultivar and environment (Finnie et al), 629
 - soft flour, starch characteristics and properties related to GBSSI gene effects (Geera et al), 544
 - starch fraction properties; effect on hearth bread characteristics (Sahlstrom et al), 647
 - starch size distribution (Wilson et al), 259
 - waxy, cross-linked starch properties (Kiribuchi-Otobe et al), 590
 - whole, tortillas during storage, effect of emulsifiers (Akdogan et al), 632
 - wild-type, partial waxy, and waxy soft, A- and B-type starch granules composition and properties (Geera et al), 551
 - winter, gluten strength of, sprout damage reduction in (Barbeau et al), 306
- Wheat bran**
- bile acid binding (Kahlon et al), 157
 - hypcholesterolemic properties of, hamsters (Kahlon et al), 152
 - milled and milled extruded, bile acid binding (Kahlon et al), 434
- Wheat starch, granule size distribution effect on spaghetti cooking quality (Soh et al), 513**
- Zein**
- extraction: 100% ethanol for (Lawton), 565
 - storage protein, popcorn (Borras et al), 86
 - water vapor permeability of films prepared with oleic acid (Wang and Padua), 331

